

open front at an insertion level and lowered to sit on the upwardly extending beads at the seating level.

7. The wafer carrier of claim 6, wherein each shelf is further comprised of a forward stop positioned at the seating level at least partially forward and inwardly of the upwardly extending beads thereby interfering with the forward movement of a wafer seated in said shelf, each shelf further having a rearward stop positioned rearwardly and inwardly of the upwardly extending beads thereby interfering with the rearward movement of a wafer in said shelf, said forward stop not extending into the insertion level whereby the wafer may be inserted and removed at the insertion level without interference with said forward stop.

8. The wafer carrier of claim 6 further comprising a molded outer transparent shell extending around and enclosing the left side, the backside and the right side and further comprising a door for closing the open front.

9. The wafer carrier of claim 8 wherein each column of wafer support shelves are formed separately from the outer shell and wherein the columns are attached to the outer shell.

10. The wafer carrier of claim 8 wherein each column of shelves is separately formed from the outer shell and each column is formed of a static dissipative material,

wherein the carrier further comprises a plurality of parts formed of static dissipative plastic material, wherein said parts are conductively connected by way of static dissipative plastic.

11. The wafer carrier of claim 10 wherein the static dissipative plastic is configured as at least one jumper extending from one part to another part.

12. The wafer carrier of claim 10 wherein said parts include a robotic flange, a side handle, and a bottom base portion having an equipment interface said bottom base portion separately

formed from the outer shell and formed of a static dissipative plastic material, said robotic flange separately formed from the outer shell and formed of a static dissipative plastic material

13. The wafer carrier of claim 12 wherein the bottom base portion comprises a kinematic coupling.

14. A wafer carrier for holding wafers, the wafer carrier having an open front, an open interior, a closed backside, a top portion, a bottom base portion, a closed left side, a closed right side, a pair of wafer supports positioned in the open interior, a pair of side wall handles and a robotic flange at the top portion the carrier, the robotic flange, the side wall handles, the wafer supports, and the bottom base portion all formed of static dissipative plastic and conductively connected together.

15. The wafer carrier of claim 14 further comprising a conductive plastic jumper.

16. The wafer carrier of claim 15 wherein the conductive plastic jumper is fixed in the interior of the wafer carrier.

17. The wafer carrier of claim 15 wherein the conductive plastic jumper is connected to one of the side wall handles.

18. A wafer carrier for holding wafers, the wafer carrier having an open front, an open interior, a nonconductive plastic shell, a top, a bottom base portion, a closed left side, a closed right side, a pair of wafer supports positioned in the open interior, a pair of side wall handles attached to the nonconductive plastic shell, a robotic flange at the top, the robotic flange, the side wall handles, the wafer supports, and the bottom base portion all formed of static dissipative plastic and conductively connected together.

19. The wafer carrier of claim 18 further comprising a kinematic coupling on the bottom base portion.

20. The wafer carrier of claim 18 further comprising a conductive plastic jumper providing a conductive connection.

21. The wafer carrier of claim 18 wherein the plastic shell is transparent.

REMARKS

In view of the foregoing, it is submitted that this application is in condition for allowance. Favorable consideration and prompt allowance of the application are respectfully requested.

The Examiner is invited to telephone the undersigned if the Examiner believes it would be useful to advance prosecution.

Respectfully submitted,

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ATTACHMENT
REDLINED AMENDMENT

Claims As Amended

Please substitute the following amended claims for those currently pending:

6. (Once Amended) A wafer carrier for holding wafers in a substantially horizontal arrangement, the wafers having a lower surface, the carrier having an open front, a backside, a top portion, a bottom portion, a left side and a right side, the carrier further comprising:

a pair of wafer support columns extending from the top portion to the bottom portion, one support column located at the right side and one located at the left side, each wafer support column comprised of a plurality of vertically arranged elongate shelves, each shelf comprised of at least two upwardly extending elongate beads oriented inwardly with respect to the wafers and transversely with respect to the plurality of vertically arranged shelves for providing minimal contact with the lower surface of a wafer at each bead, each shelf further having an insertion level and a seating level for a wafer, whereby a wafer may be inserted into the carrier through the open front at an insertion level and lowered to sit on the upwardly extending beads at the seating level.